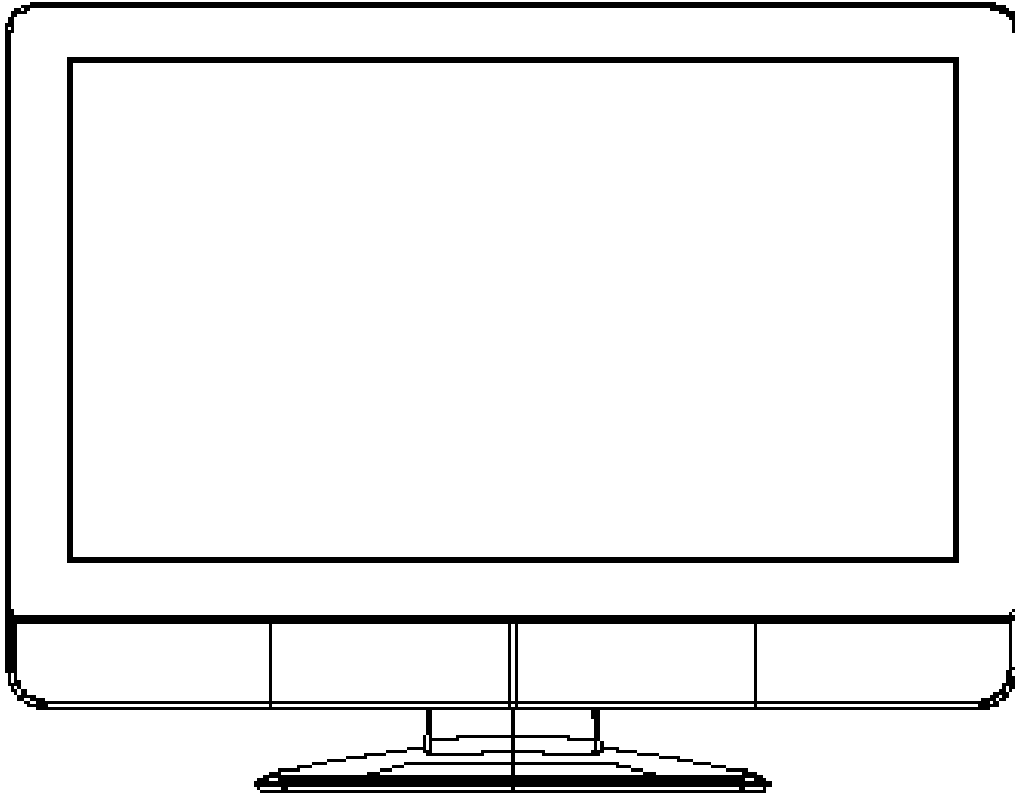


Service Manual



**Model #: VL320M_LGD
_LC320WUG-SBR1-6R1/7R1
(T32USVZB1RF-.VL320M1~4)**

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1. Main Board Circuit Diagram
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3. Assembly Explosion Drawing

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FCC INFORMATION

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause unacceptable interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures -- reorient or relocate the receiving antenna; increase the separation between equipment and receiver; or connect the into an outlet on a circuit different from that to which the receiver is connected.

FCC WARNING

To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. Also, any unauthorized changes or modifications to Amtrak products will void the user's authority to operate this device. Thus VINC Will not be held responsible for the product and its safety.

CE CERTIFICATION

This device complies with the requirements of the EEC directive 89/336/EEC with regard to "Electromagnetic compatibility."

SAFETY CAUTION

Use a power cable that is properly grounded. Always use the AC cords as follows – USA (UL); Canada (CSA); Germany (VDE); Switzerland (SEV); Britain (BASEC/BS); Japan (Electric Appliance Control Act); or an AC cord that meets the local safety standards.

Chapter 1 Features

1. Built in TV channel selector for TV viewing.
2. Color Depth 10 bit (D), 1.06B.
3. Connectable to PC' s analog RGB port.
4. Built in S-video, HDTV, composite video, HDMI and TV out.
5. Built in auto adjust function for automatic adjustment of screen display.
6. Smoothing function enables display of smooth texts and graphics even if image with resolution lower than 1920(H) x1080 (V) is magnified.
7. Power saving to reduce consumption power too less than 1W.
8. On Screen Display: user can define display mode (i.e. color, brightness, contrast, sharpness, and backlight), sound setting, TV channel program, aspect and gamma or reset all setting.

Chapter 2 Specification

1. General Description

Model No.	9632-850x-x053	
Product Name	VIZIO VL320M	
Panel	LGD	LC320WUG-SBR1-6R1
Display Pixels	1920 (H) x 1080 (V) pixels	
Active Display Area (mm)	698.40 (H) x 392.85 (V)	
Aspect Ratio	16:9	
Color Depth	8 bit(D), 16.7M	
Luminance of White (cd/m²) (Typical, Panel Spec.)	LC320WUG-SBR1-6R1	500
Contrast Ratio	LC320WUG-SBR1-6R1	1300:1
TV system	NTSC/ATSC/QAM	
PC Inputs	15pins D-Sub	
Video Inputs	1x RF (Combo, F Connector for internal NTSC/ATSC/QAM Tuner)	
	3x HDMI with HDCP plus Stereo Analog Audio	
	2x Component YPbPr plus Stereo Audio	
	2x Composite Video plus Stereo Audio	
	1x S-Video plus Stereo Audio	
Audio Inputs	1x Analog RGB plus Stereo Audio	
	4x Stereo Audio (RCA)	
	1x PC mini jack	
Audio Outputs	1x SPDIF Digital Audio (Optical)	
	1x Stereo Analog Audio RCA Jack (R/L)	
Service Port	USB service port	
Audio Speaker	10W X 2 (6 ohm)	
Power Input	100~240 Vac at 50/60 Hz	
Power Consumption	98W (Average), 118 W (Max), Standby <0.5 W	
EDID version	VGA – 1.3	
	HDMI – 1.3	
Preset Modes	Primary 1920 (H) x 1080 (V) @ 60Hz.	

Optical Characteristics

LGD Panel

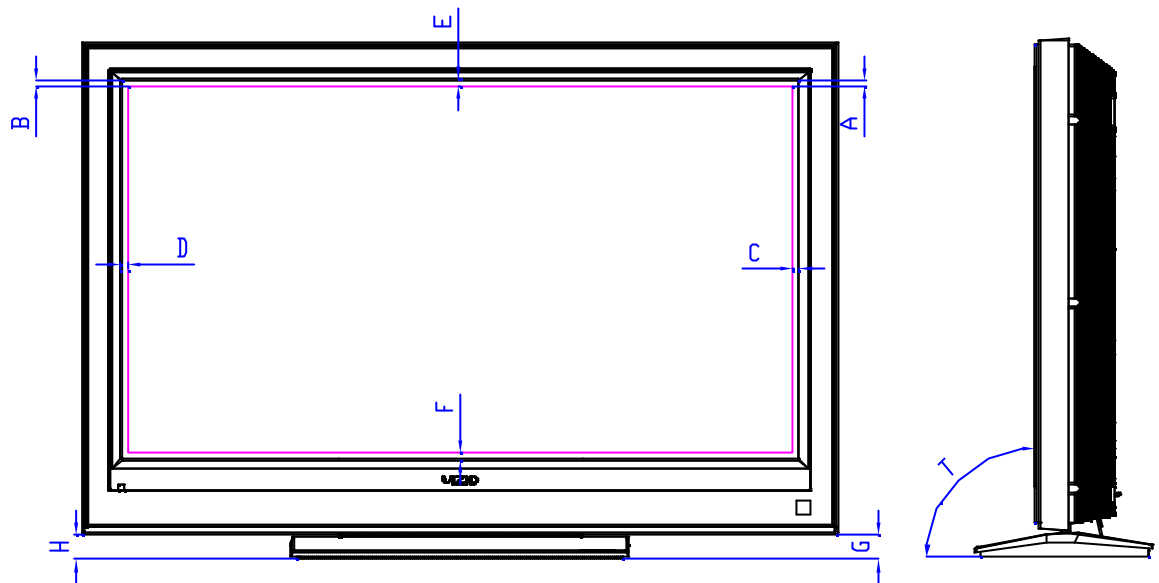
Item			Specification
Supplier			LGD
Panel			LC320WUG-SBR1-6R1
Display Pixels (H x V)			1920 x 1080
Active Display Area (H x V, mm)			698.40mm (H) x 392.85mm (V)
Color Depth			8 bit, 16.7M
Pixel Pitch (H x V, mm)			0.36375mm x 0.36375mm
Luminance of white (cd/m ²) (Center of Screen, Typical)			500
Contrast Ratio			1300:1
Color coordinate (typical) ±0.030	White	x	0.279 (Typ.)
		y	0.292 (Typ.)
	Red	x	0.638 (Typ.)
		y	0.340 (Typ.)
	Green	x	0.279 (Typ.)
		y	0.611 (Typ.)
	Blue	x	0.146 (Typ.)
		y	0.062 (Typ.)

Remark: All characteristics are measured at least 30 minutes later after power-on in the normal ambient temperature

2. POWER SUPPLY

- a. Input voltage: 100~240Vac, 50/60Hz
- b. Input current: 3A (at AC 120V/60Hz)
- c. Inrush current: 150A (max) @ Vac=240V
100A (max) @ Vac=120V
- d. Power consumption: 98 W (AVG) / 118W (Max)
160 W (Max) @ full loading test
- e. Standby / Power off: <0.5 Watts. (at 120 Vac)

Mechanical and Packaging Specifications



MECHANICAL SPECIFICATION

(Unit: mm)

Gap allowance between bezel & panel surface

Gap 3.0

Horizontal Tilt

|A-B| NONE

Panel disposition tolerance

C,D,E,F > 0

Product balance

|G-H| 5 mm

Tilt angle

89° T 91°

up : -2° ~ -5°

Down : 13° ~ 18°

OUTLINE DIMENSION

Physical dimension

(Unit: mm)

	Display Module	Display Module + Base
Height	570.0	565.8
Width	792.1	792.1
Depth	210.3	89.3

Weight

a.Net (W/O Base): 9.2 ±1.0kg

b. Net (W/ Base): 9.8 ±1.0kg

c. Gross: 14.3±1.0kg

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File No. SG-0301

Material, color

Part name	Material	Color
Front bezel	ABS(94-HB)	T82015 JAVA
Rear cover	ABS(94-5V)	T33008 433C
Base Ass'y	ABS(94-HB)	T82015 JAVA

Wall-mounting

- a. Screw size: M6* PITCH 1.0 mm
- b. Screw Q'ty: 4 pcs
- c. Mounting hole pitch: 200 (H), 200 (V) (mm)

PACKAGING SPECIFICATION

Packaged dimensions

- a. Height 710.0 ±10 mm
- b. Width 895.0 ±10 mm
- c. Depth 225.0 ±10 mm

Pallet Load

- a. Sea A)15 units / pallet
- b. Air A)NONE

Container Load

- a. 40' container 390 units (=15x26 pallets)
- b. 20' container 180 units (=15x12 pallets)

ACCESSORIES

- a. 1.8M Power Cord 110v UL/CSA Black x 1
- b. VIZIO VR2 White Remote Control x 1
- c. AA batteries x 2
- d. User' s Manual x 1
- e. Quick Start Guide x 1
- f. Screws for Base x 4
- h. Registration Card x1
- j. Premium Size Polishing Cloth x1

Chapter 3 On Screen Display

Main unit button

Power 

MENU

CH ^

CH v



VOL +


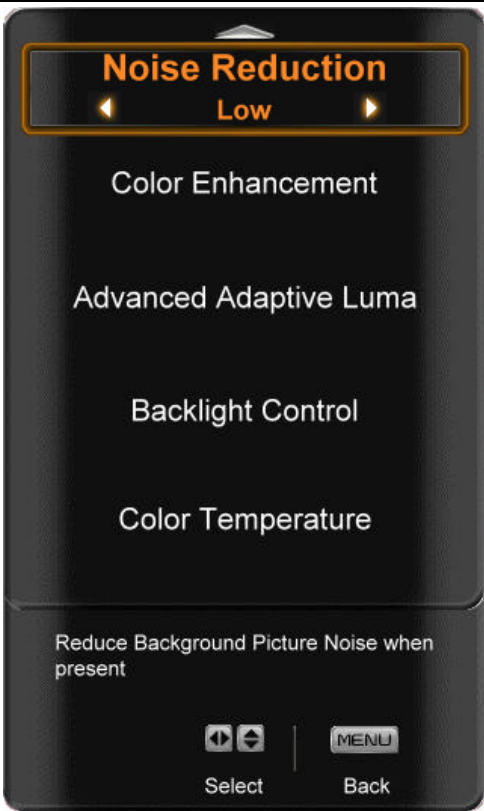
VOL -

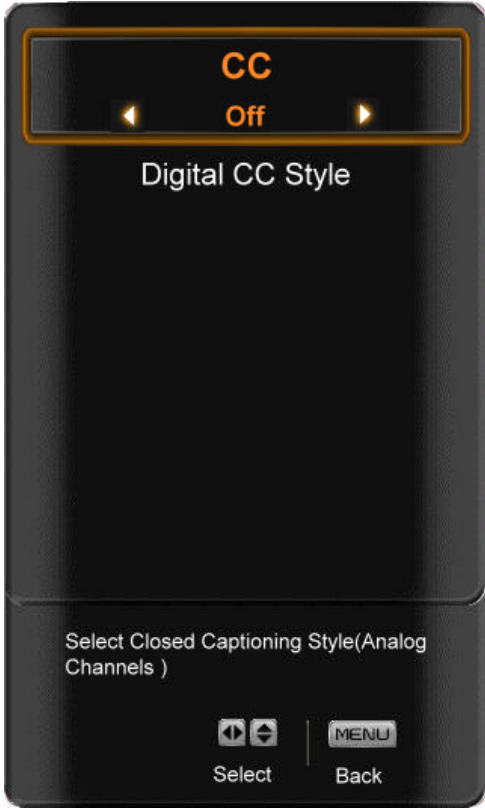
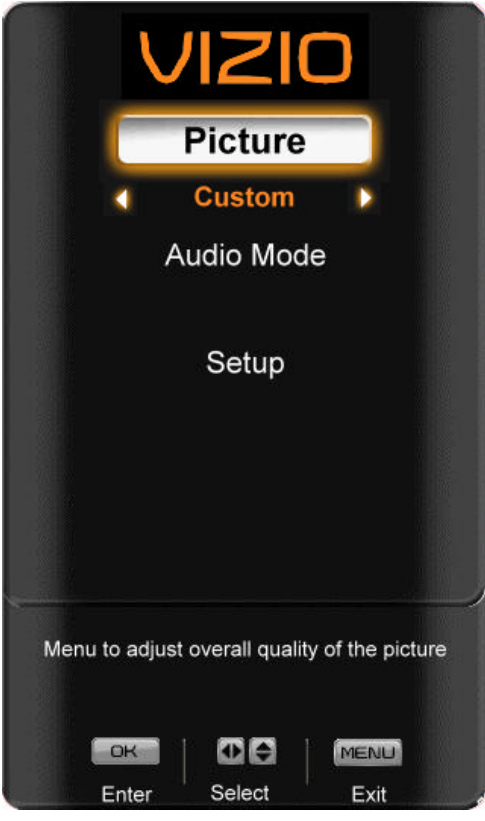
Input

On Screen Display

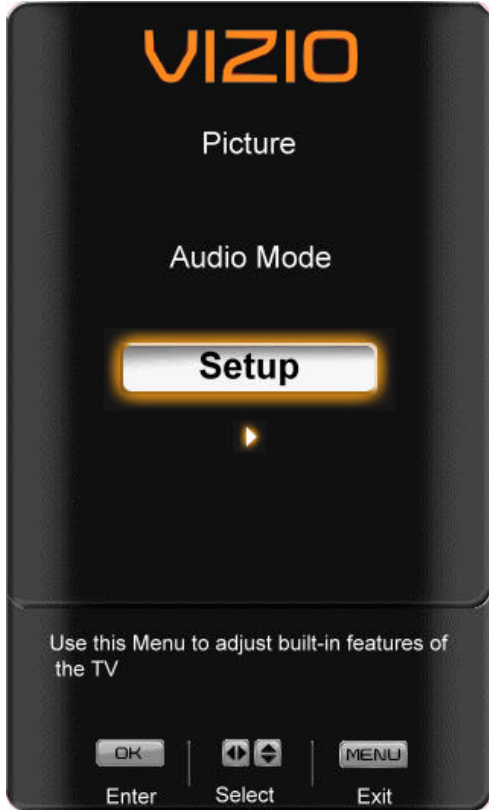
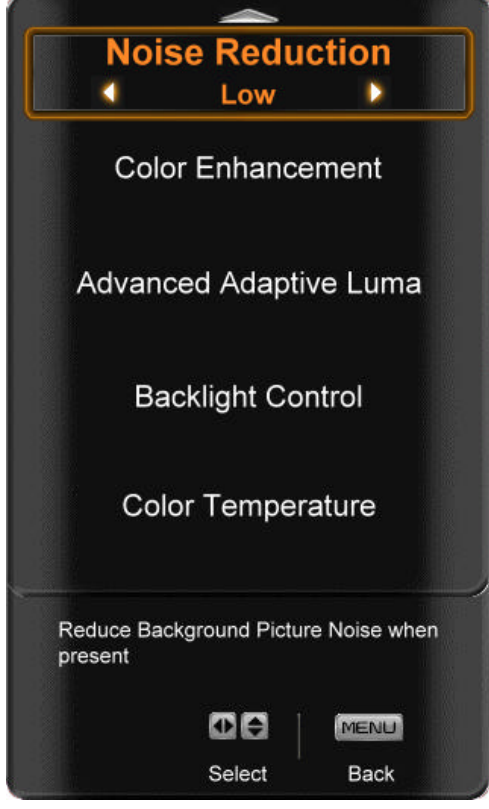
AV, Component	
	<p>A. PICTURE ADJUST :</p> <ul style="list-style-type: none"> a. Picture Mode (Custom/Standard/Movie/Game/Vivid/Football/Golf/Basket ball Baseball) b. Backlight (0~100) c. Brightness (0~100) d. Contrast (0~100) e. Color (0~100) f. Tint (-32~+32) g. Sharpness (0~7) h. Advance Video <ul style="list-style-type: none"> Noise Reduction/Color Enhancement/Advanced Adaptive Luma/Backlight Control/Color Temperature/ i. Reset Picture Mode



	<p>B. AUDIO ADJUST :</p> <ul style="list-style-type: none"> a. Audio Mode (Flat/Rock/Pop/Classic/Jazz) b. Equalizer (120/500/1.5K/5K/10K) c. Balance(-50~0~50) d. SRS TSHD(On/OFF) e. Digital Audio Out (PCM/Off/Dolby Digital) f. Speakers(On/Off) g. Analog Audio Out (Fixed/Variable) h. Lip Sync(0~5) i. Reset Audio Mode
	<p>C. SETUP :</p> <ul style="list-style-type: none"> a. Language(English/Espanol /Francais/) b. Sleep Timer (OFF/30MIN/60MIN/90MIN/ 120MIN) c. Wide d. Input Naming e. CC (Off/CC1/CC2/CC3/CC4) f. Parental g. System Reset <p>Setup Wizard/Reset All Setting</p>

	<p>D. PARENTAL CONTROL :</p> <ul style="list-style-type: none"> a. Channel Block b. US TV Rating c. US Movie Rating d. Canadian English Rating e. Canadian French Rating f. DTV Rating g. Block TV Unrated (No/Yes) h. Access Code Edit
	<p>E. ADVANCED VIDEO :</p> <ul style="list-style-type: none"> a. Noise Reduction b. Color Enhancement c. Advance Adaptive LUMA d. Backlight Control e. Color Temperature


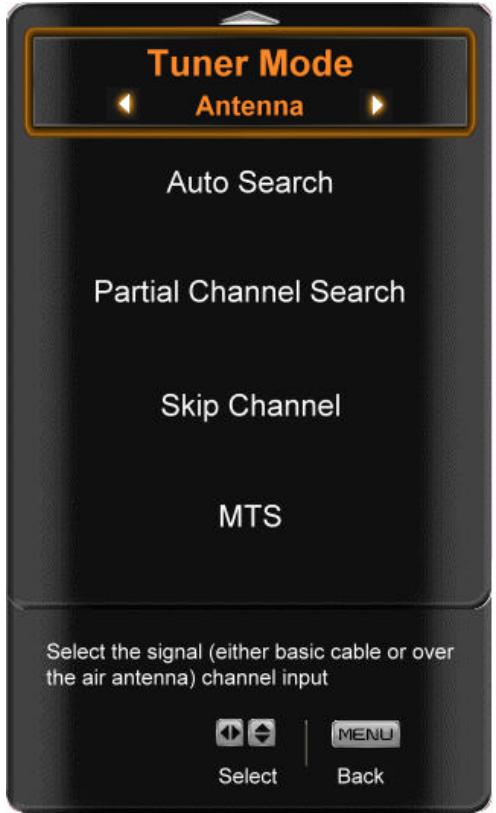
	<p>G. CC</p> <p>a. CC (Off/CC1/CC2/CC3/CC4)</p>
<p>HDMI</p>	
	<p>A. PICTURE ADJUST :</p> <p>a. Picture Mode (Custom/Standard/Movie/Game/Vivid/Football/Golf/Basket ball Baseball)</p> <p>b. Backlight (0~100)</p> <p>c. Brightness (0~100)</p> <p>d. Contrast (0~100)</p> <p>e. Color (0~100)</p> <p>f. Tint (-32~+32)</p> <p>g. Sharpness (0~7)</p> <p>h. Advance Video</p> <p>Noise Reduction/Color</p> <p>Enhancement/Advanced Adaptive</p> <p>Luma/Backlight Control/</p>

	<p>Color Temperature/ i. Reset Picture Mode</p>
	<p>B. AUDIO ADJUST :</p> <ul style="list-style-type: none"> a. Audio Mode (Flat/Rock/Pop/Classic/Jazz) b. Equalizer c. Balance(-50~0~50) d. SRS TSHD(Off/On) e. Digital Audio Out (PCM/Off /Dolby Digital) f. Speakers(On/Off) g. Analog Audio Out(Fixed/Variable) h. Lip Sync(0~5) i. Reset Audio Mode

 <p>The image shows the VIZIO TV Setup Menu. At the top is the VIZIO logo in orange. Below it are the options 'Picture', 'Audio Mode', and 'Setup'. The 'Setup' option is highlighted with a yellow border and a small yellow arrow pointing to it. Below the options is a small text box that says 'Use this Menu to adjust built-in features of the TV'. At the bottom are three buttons: 'OK' (labeled 'Enter'), 'Left/Right' (labeled 'Select'), and 'MENU' (labeled 'Exit').</p>	<p>C. SETUP :</p> <ul style="list-style-type: none"> a. Language(English/Espanol /Francais) b. Sleep Timer (OFF/30MIN/60MIN/90MIN/ 120MIN) c. Wide d. Input Naming e. H/V Position f. System Reset <p>Setup Wizard/Reset All Setting</p>
 <p>The image shows the VIZIO TV Advanced Video Menu. At the top is the 'Noise Reduction' option, which is highlighted with a yellow border and a small yellow arrow pointing to it. Below it is the 'Low' setting. Below these are the options 'Color Enhancement', 'Advanced Adaptive Luma', 'Backlight Control', and 'Color Temperature'. At the bottom is a small text box that says 'Reduce Background Picture Noise when present'. Below the text box are two buttons: 'Left/Right' (labeled 'Select') and 'MENU' (labeled 'Back').</p>	<p>D. ADVANCED VIDEO :</p> <ul style="list-style-type: none"> a. Noise Reduction b. Color Enhancement c. Advance Adaptive LUMA d. Backlight Control e. Color Temperature

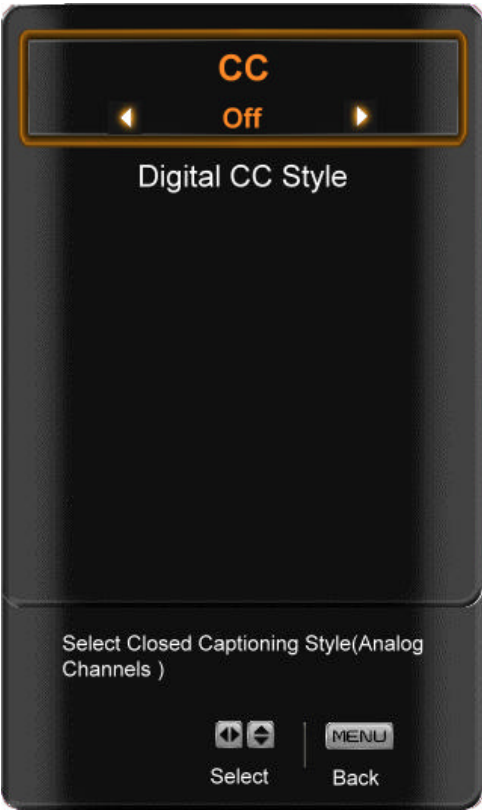
RGB MODE	
 <p>The image shows the VIZIO Picture menu screen. At the top is the VIZIO logo in orange. Below it, the word 'Picture' is highlighted in a glowing yellow box. Underneath 'Picture' is a small yellow arrow pointing right. Below that are the options 'Audio Mode' and 'Setup'. At the bottom of the screen, there is a description: 'Menu to adjust overall quality of the picture'. Below the description are three buttons: 'OK' (labeled 'Enter' below it), a left and right arrow (labeled 'Select' below it), and 'MENU' (labeled 'Exit' below it).</p>	<p>A. PICTURE ADJUST :</p> <ul style="list-style-type: none"> a. Auto Adjust b. Backlight (0~100) c. Brightness (0~100) d. Contrast (0~100) e. Color Temperature (9300/6500/CUSTOM) f. H-Size (0~255) g. H. Position (0~100) h. V. Position (0~100) i. Fine Tune (0~31)
 <p>The image shows the VIZIO Audio Mode menu screen. At the top is the VIZIO logo in orange. Below it is the word 'Picture'. Underneath 'Picture', the words 'Audio Mode' are highlighted in a glowing yellow box. Below 'Audio Mode' is the word 'Flat' in orange, with small yellow arrows pointing left and right. Below that is the option 'Setup'. At the bottom of the screen, there is a description: 'Menu to adjust overall quality of the Audio'. Below the description are three buttons: 'OK' (labeled 'Enter' below it), a left and right arrow (labeled 'Select' below it), and 'MENU' (labeled 'Exit' below it).</p>	<p>B. AUDIO ADJUST :</p> <ul style="list-style-type: none"> a. Audio Mode (Flat/Rock/Pop/Classic/Jazz) b. Equalizer c. Balance(-50~0~50) d. SRS TSHD(On/Off) e. Digital Audio Out (PCM/Off/Dolby Digital) f. Speakers(On/Off) g. Analog Audio Out(Fixed/Variable) h. Lip Sync(0~5) i. Reset Audio Mode

 <p>The image shows the VIZIO TV Setup menu. At the top is the VIZIO logo in orange. Below it are the options 'Picture', 'Audio Mode', and 'Setup'. The 'Setup' option is highlighted with a yellow border and a small orange arrow pointing to it. At the bottom, there is a text box that says 'Use this Menu to adjust built-in features of the TV'. Below this are three buttons: 'OK' (labeled 'Enter'), 'Left/Right' (labeled 'Select'), and 'MENU' (labeled 'Exit').</p>	<p>C. SETUP:</p> <ul style="list-style-type: none"> a. Language(English/Espanol /Francais/) b. Sleep Timer (OFF/30MIN/60MIN/90MIN/ 120MIN) c. Wide d. Input Naming e. System Reset <p>Setup Wizard/Reset All Setting</p>
<p>TV&DTV MODE</p>	
 <p>The image shows the VIZIO TV Picture Adjust menu. At the top is the VIZIO logo in orange. Below it are the options 'Picture', 'Audio Mode', 'TV', and 'Setup'. The 'Picture' option is highlighted with a yellow border and a small orange arrow pointing to it. Below 'Picture' is the word 'Custom' in orange. At the bottom, there is a text box that says 'Menu to adjust overall quality of the picture'. Below this are three buttons: 'OK' (labeled 'Enter'), 'Left/Right' (labeled 'Select'), and 'MENU' (labeled 'Exit').</p>	<p>A. PICTURE ADJUST : (ATV & DTV)</p> <ul style="list-style-type: none"> a. Picture Mode (Custom/Standard/ Movie/Game/Vivid/Football/Golf/Basket ball Baseball) b. Backlight (0~100) c. Brightness (0~100) d. Contrast (0~100) e. Color (0~100) f. Tint (-32~+32) g. Sharpness (0~7) h. Advance Video i. Reset Picture Mode

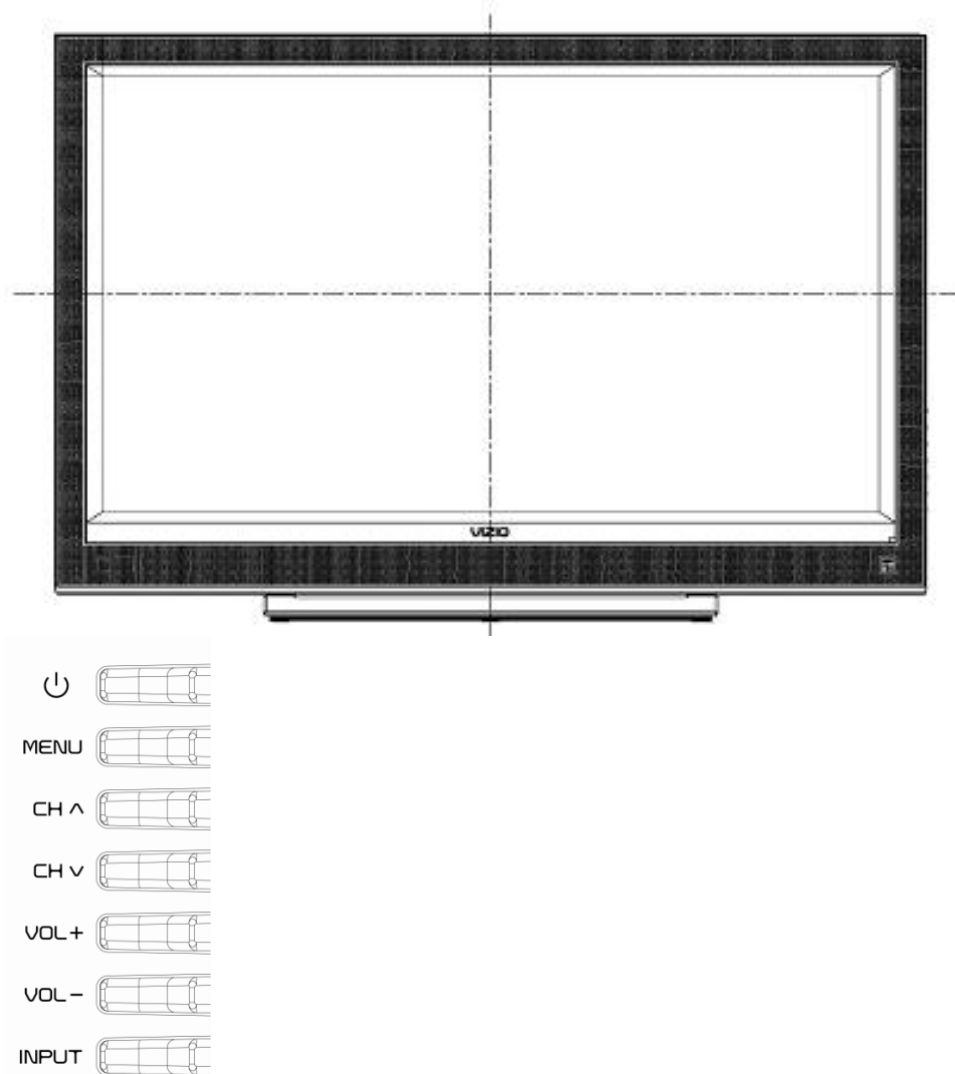
 <p>The image shows the VIZIO Audio Mode menu. At the top is the VIZIO logo. Below it is the word 'Picture'. A central box highlights 'Audio Mode'. Underneath, 'Flat' is selected with left and right arrow icons. Below that is 'Setup'. At the bottom, a line of text reads 'Menu to adjust overall quality of the Audio'. At the very bottom are three buttons: 'OK' (labeled 'Enter'), 'Left/Right' (labeled 'Select'), and 'MENU' (labeled 'Exit').</p>	<p>B. AUDIO ADJUST : (ATV & DTV)</p> <ul style="list-style-type: none"> a. Audio Mode (Flat/Rock/Pop/Classic/Jazz) b. Equalizer c. Balance(-50~0~50) d. SRS TSHD(Off/On) e. Digital Audio Out (PCM/Off/Dolby Digital) f. Speakers(On/Off) g. Analog Audio Out(Fixed/Variable) h. Lip Sync(0~5) i. Reset Audio Mode
 <p>The image shows the VIZIO Tuner Mode menu. At the top, a box highlights 'Tuner Mode' with 'Antenna' selected below it. Below this are four options: 'Auto Search', 'Partial Channel Search', 'Skip Channel', and 'MTS'. At the bottom, a line of text reads 'Select the signal (either basic cable or over the air antenna) channel input'. Below that are two buttons: 'Left/Right' (labeled 'Select') and 'MENU' (labeled 'Back').</p>	<p>C. TV:</p> <ul style="list-style-type: none"> a. Tuner Mode (Cable/Antenna) b. Auto Search c. Partial Channel Search d. Skip Channel e. MTS(Stereo/SAP/Mono) (ATV) MTS(Language 1/2/3)(DTV) f. Time Zone (Eastern/Indiana/Central/Mountain/Arizona/Newfoundland/Pacific/Alaska/Hawaii/Atlantic) g. Daylight Saving (On/Off)

<p>The image shows the VIZIO TV Setup Menu for ATVs. At the top is the VIZIO logo in orange. Below it are the options 'Picture' and 'Audio Mode'. A 'Setup' button is highlighted with a yellow border and a small orange arrow pointing to it. At the bottom, there is a text prompt: 'Use this Menu to adjust built-in features of the TV'. Below the prompt are three buttons: 'OK' (labeled 'Enter'), 'Left/Right' (labeled 'Select'), and 'MENU' (labeled 'Exit').</p>	<p>D. SETUP: (ATV only)</p> <ul style="list-style-type: none"> a. Language(English/Espanol /Francais/) b. PIP c. Sleep Timer (OFF/30MIN/60MIN/90MIN/ 120MIN) d. Wide e. Input Naming f. CC (CC/Digital CC Style) g. H/V Position(H. Position/V. Position/ H-Size/ V-Size) h. Parental i. System Reset <p>Setup Wizard/Reset All Setting</p>
<p>The image shows the VIZIO TV Setup Menu for DTVs. It has the same layout as the ATV menu, with the VIZIO logo, 'Picture' and 'Audio Mode' options, a highlighted 'Setup' button, and the text prompt 'Use this Menu to adjust built-in features of the TV'. The bottom buttons are 'OK' (Enter), 'Left/Right' (Select), and 'MENU' (Exit).</p>	<p>E. SETUP: (DTV only)</p> <ul style="list-style-type: none"> a. Language(English/Espanol /Francais/) b. Sleep Timer (OFF/30MIN/60MIN/90MIN/ 120MIN) c. Wide(Wide/Zoom/Panoramic/Normal) d. Input Naming(AV1/AV2/COMPONENT1/CO MPONNT2/RGB/HDMI1/HDMI2) e. CC (CC/Digital CC Style) f. Parental g. System Setup <p>Setup Wizard/Reset All Setting</p>

	<p>F. PARENTAL : (ATV & DTV)</p> <ul style="list-style-type: none"> a. Channel Block b. US TV Rating c. US Movie Rating d. Canadian English Rating e. Canadian French Rating f. DTV Rating g. Block Unrated TV h. Access Code Edit
	<p>G. ADVANCED VIDEO : (ATV & DTV)</p> <ul style="list-style-type: none"> a. Noise Reduction (Low/Medium/Strong) b. Color Enhancement (Normal/Rich Color/Green/Flesh/Green/Blue/Off) c. Advance Adaptive LUMA (Medium/Strong/Extend/Off) d. Backlight Control(Mega DCR/OPC/Off) e. Color Temperature(Cool/Computer/Normal /Custom)

	<ul style="list-style-type: none">I. CC<ul style="list-style-type: none">a. CC (Off/CC1/2/3/4/Service1/2/3/4/5/6)b. Digital CC Style
---	---

External Control Panel & Indicators



LED INDICATOR DISPLAY ON THE FRONT

LED indicator	Status	Remark
Off	AC power off	By disconnecting the power cord
White	Power on	Becoming dimmer after lighting up a few seconds
Orange	Standby	Becoming dimmer after lighting up a few seconds

SPECIFICATION AND EXPLANATION OF USER CONTROL

PANEL ON THE SIDE

Buttons	1	2	3	4	5	6	7
Name	(Power symbol))	MENU	CH ^	CH v	VOL+	VOL-	INPUT

Standby/Power on

After AC on, by pressing Power button, LED indicator turns to white to indicate power on. To turn off this device, press this button again.

Menu Operation

Press MENU button to activate the OSD. Press this button again to exit.

Channel Selection

By operating the CH+ and CH- buttons, channel should be selected. At the time, channel should increase with CH+ button and decrease with CH- button.

When the “MENU” is activated, it can be navigated up by CH+ button and down by CH- button.

Volume Adjustment

By operating the VOL+ and VOL-/ buttons, volume should be available to change from minimum to maximum. At the time, volume should increase with VOL+ button and decrease with VOL- button, and volume shift should be smooth.

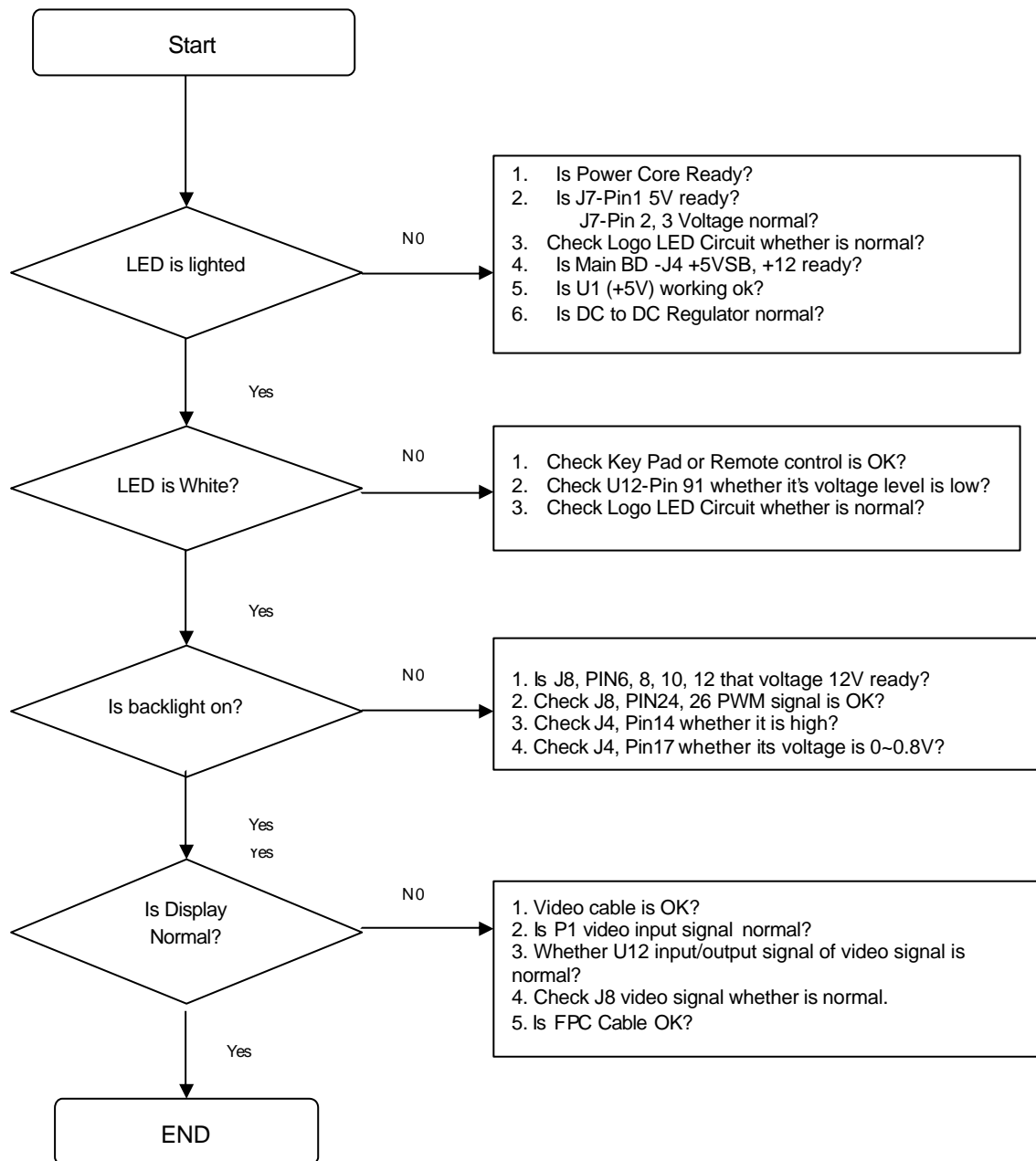
When the “MENU” is activated, it can be navigated left by VOL+ button and right by VOL-button.

Input Change

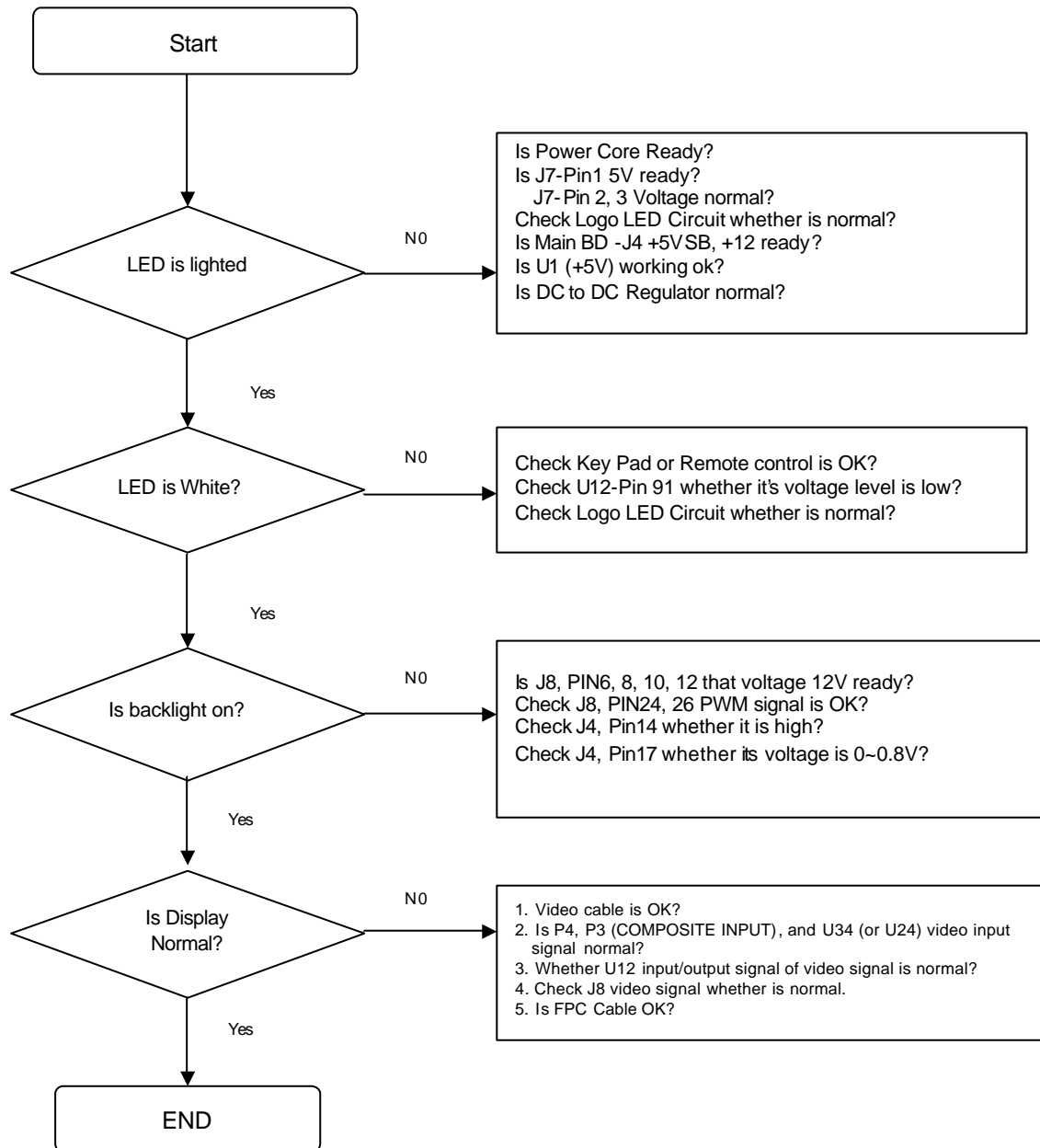
This button allows the user to cycle through the input sources in the following sequence: TV, AV1(S-Video), AV2 (Video*), Component 1, Component 2, RGB, HDMI 1, HDMI 2 and HDMI 3.

Chapter 9 Trouble shooting

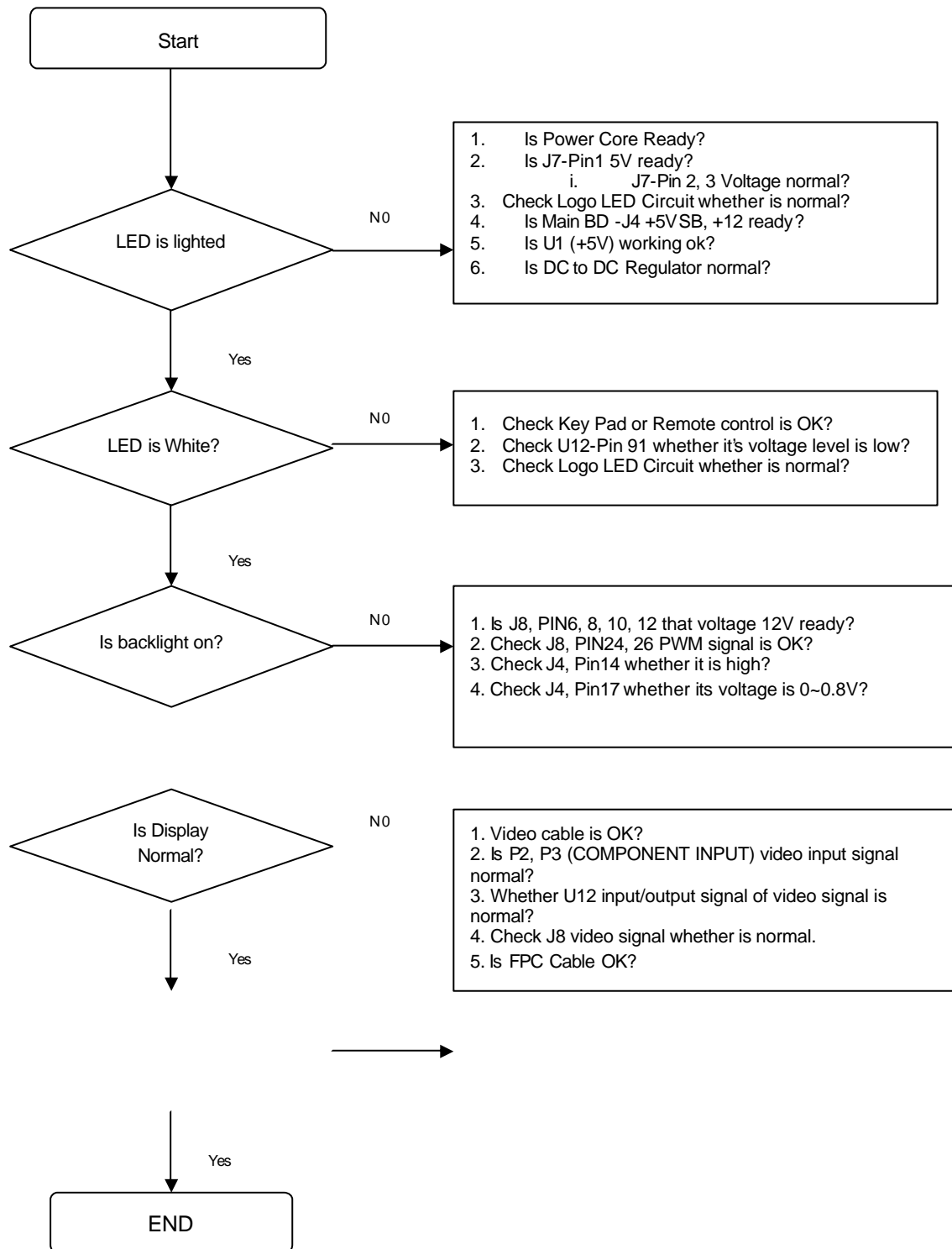
MONITOR DISPLAY NOTHING (PC MODE)



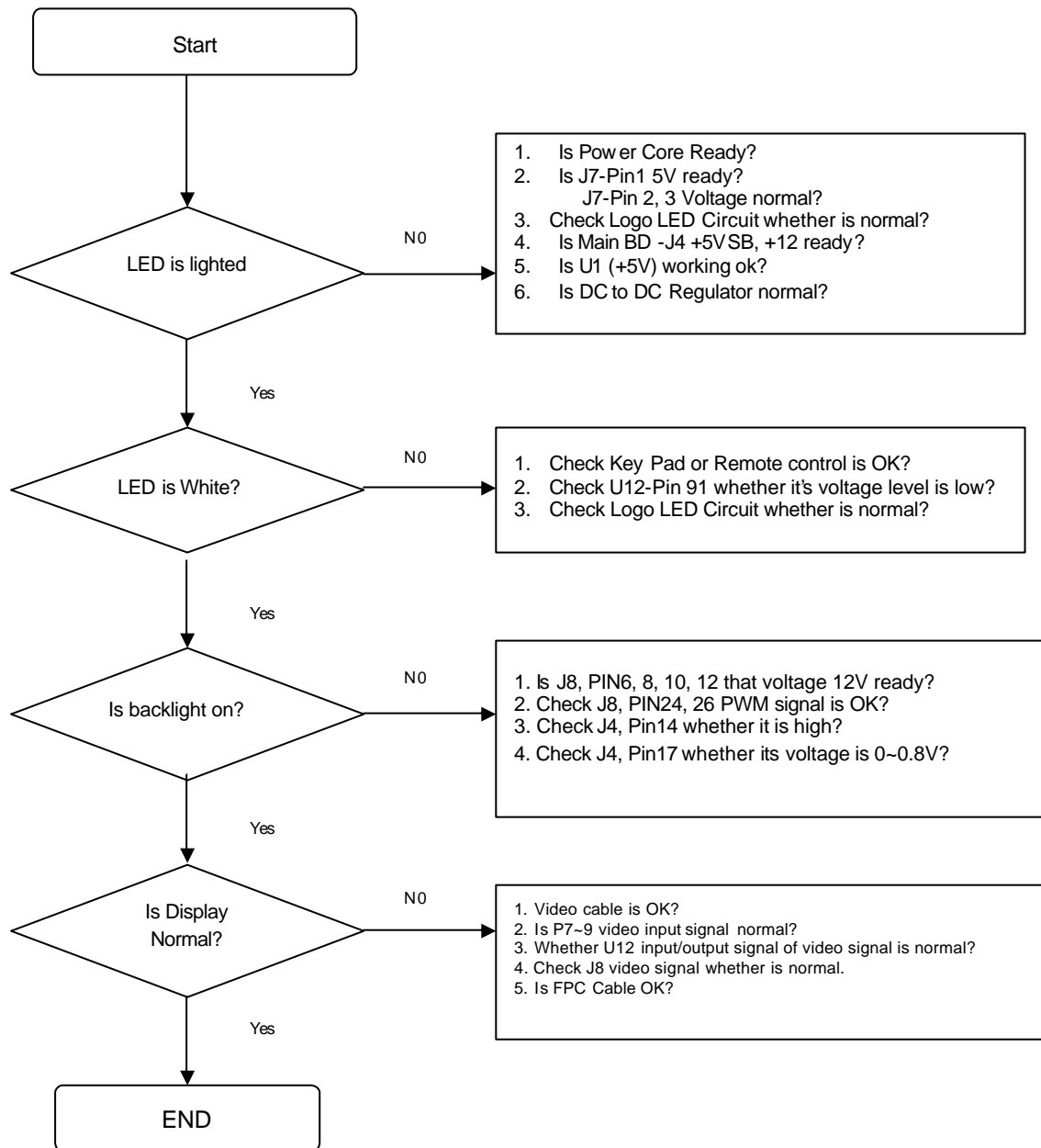
(TV, COMPOSITE, VIDEO) IS NOT DISPLAY CORRECTLY



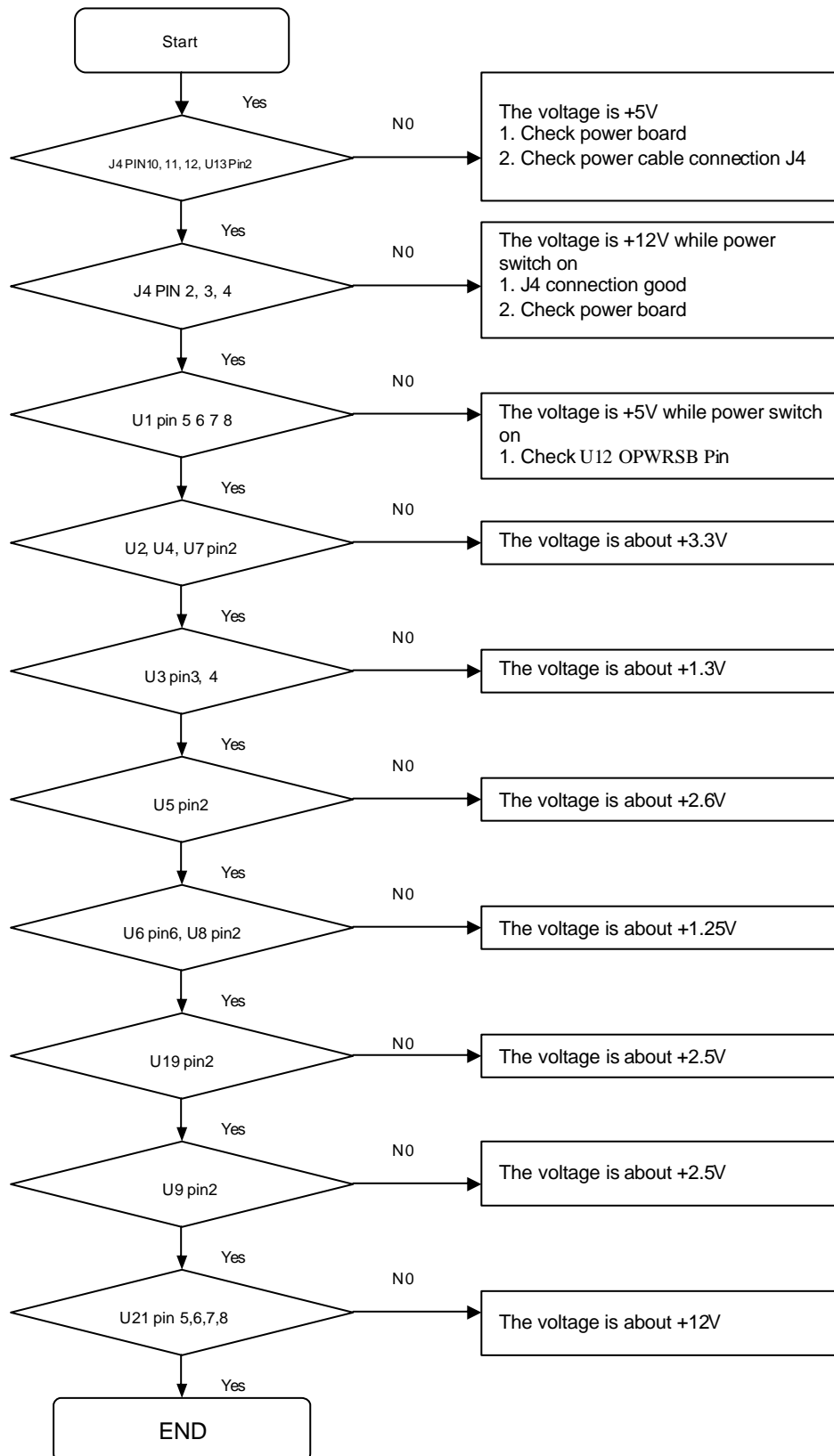
(COMPONENT) IS NOT DISPLAY CORRECTLY



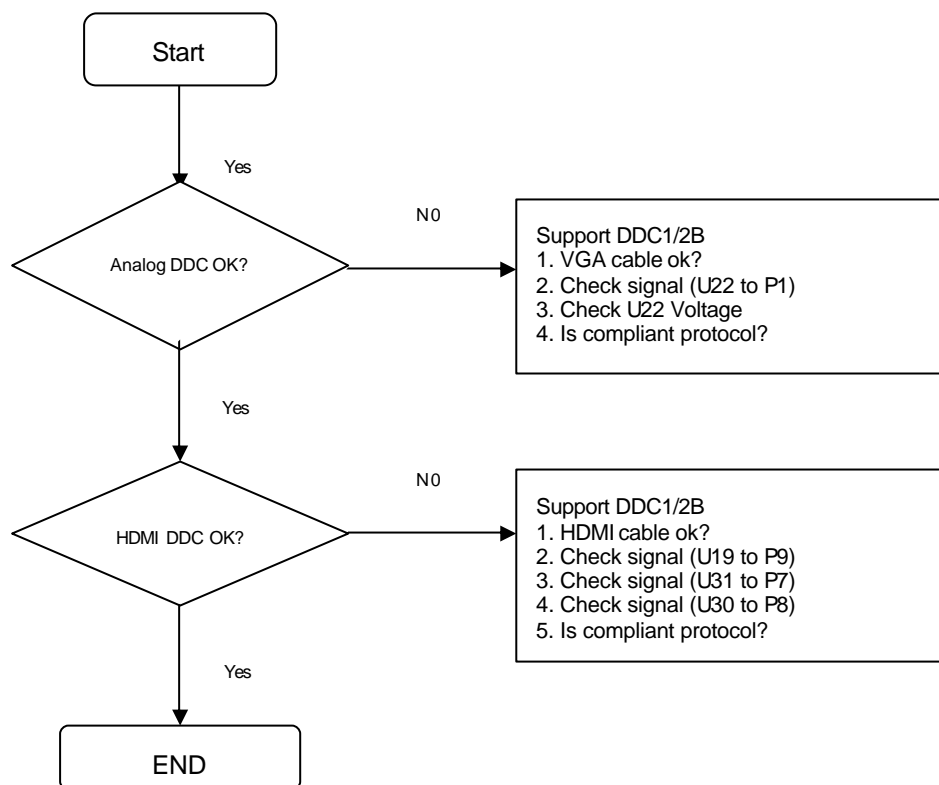
HDMI IS NOT DISPLAY CORRECTLY



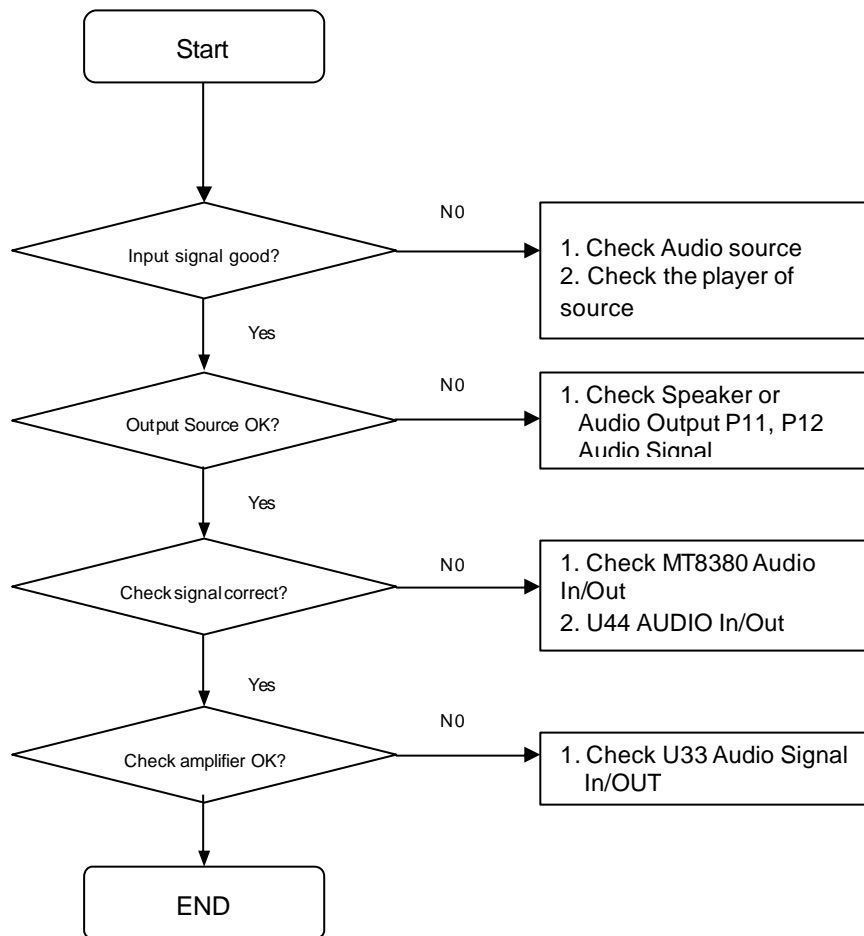
TROUBLE OF DC-DC CONVERTER



TROUBLE OF DDC READING



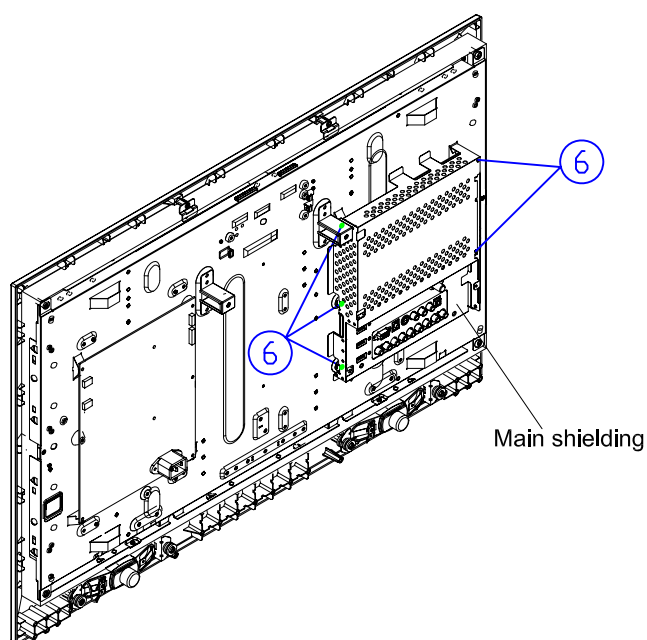
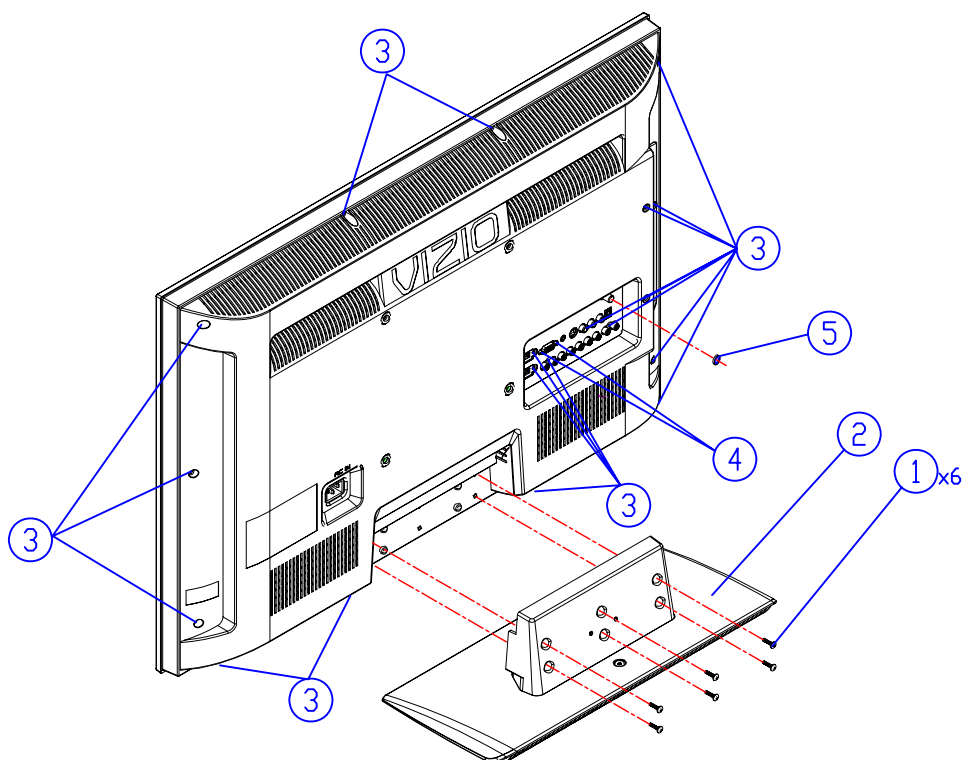
AUDIO FUNCTION IS NOT WORKING CORRECTLY



1. REAR COVER ASS'Y /CONNECTOR BD ASS'Y REMOVAL

Note: Spread a mat underneath to avoid damaging the TV surface.

- 1) Remove six screws ① from Base Ass'y ② .
- 2) Separate the Base Ass'y ② .
- 3) Remove nineteen screws ③ , two hexagon screws ④ and NUT screws ⑤ from rear cover.
- 4) Separate the rear cover.
- 5) Remove five screws ⑥ from main shielding.
- 6) Separate the Main shielding.

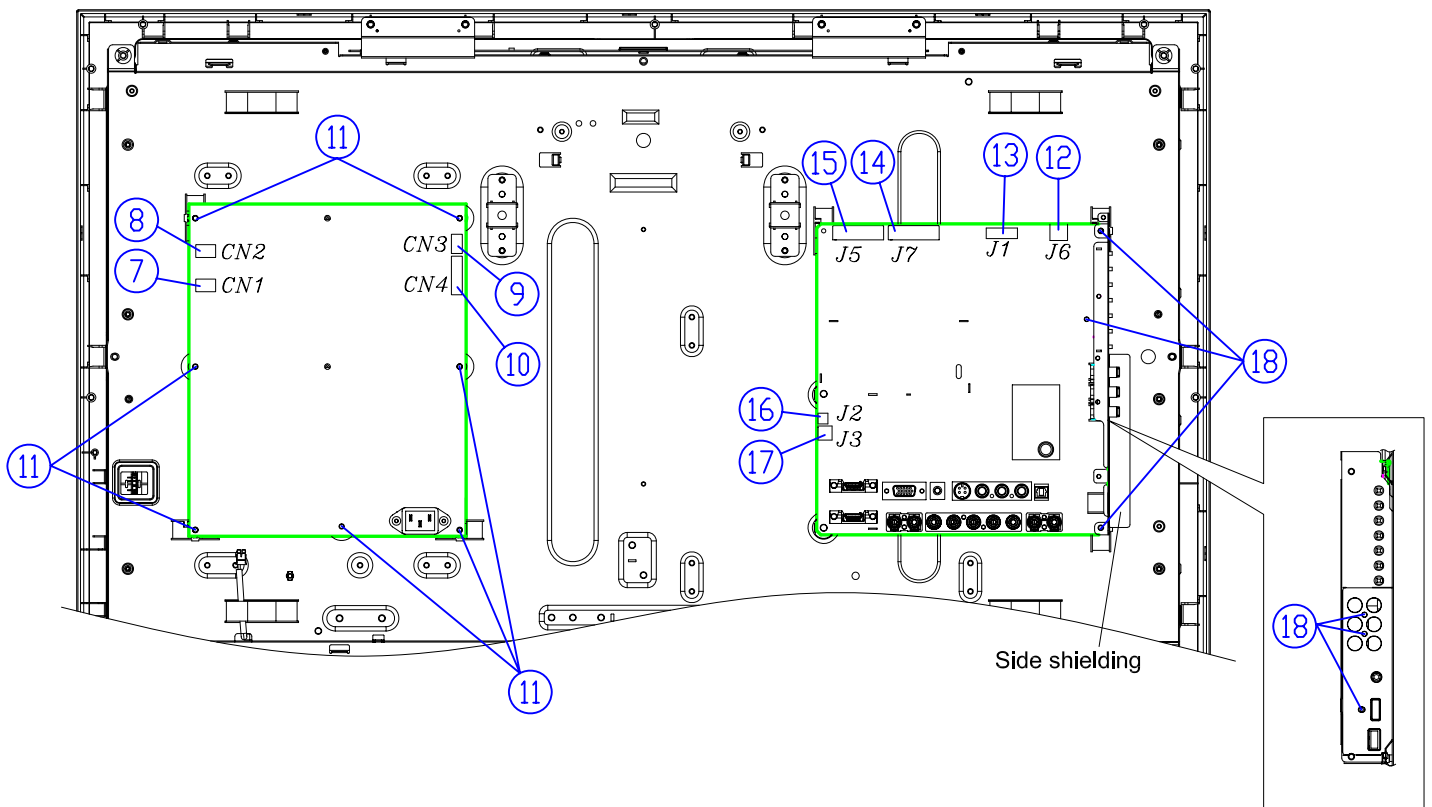


2. POWER BD ASS'Y REMOVAL

- 1) Remove the connector ⑦ (CN1) ⑧ (CN2) of the inverter cable.
- 2) Remove the connector ⑨ (CN3) ⑩ (CN4) of the Main cable.
- 3) Remove seven screws ⑪ from Power BD ASS'Y .
- 4) Separate the Power BD ASS'Y .

3. MAIN BD ASS'Y REMOVAL

- 1) Remove the connector ⑫ (J6) of the speaker cable.
- 2) Remove the connector ⑬ (J1) of the Main cable.
- 3) Remove the connector ⑭ (J7) ⑮ (J5) of the FCC cable.
- 4) Remove the connector ⑯ (J3) of the IR cable.
- 5) Remove the connector ⑰ (J2) of the LED Backlight cable.
- 5) Remove six screws ⑱ .
- 6) Separate the MAIN BD and side shielding.





UNLESS OTHERWISE NOTED

JOK = 10.00
X = 10.2
ANS = 11/8"